

WHAT IS CLAIMED IS:

1. A storage system comprising:
 - a plurality of channel units that transfers data sent from an upper-level system and transfers data to said upper-level system;
 - a cache unit which is connected to said plurality of channel units and in which data sent from said plurality of channel units is stored;
 - a control unit that is connected to said cache unit, and transfers or receives data to or from said cache unit;
 - a disk device in which data sent from said control unit is stored; and
 - a plurality of paths, one of said paths connecting each channel unit to said cache unit, wherein
 - a number of said plurality of paths linking said plurality of channel units to said cache unit equals a number of said plurality of channel units.
2. A storage system according to Claim 1, wherein said plurality of paths includes a first path that links a first channel unit included in said plurality of channel units to said cache unit, and a second path that links a second channel unit included in said plurality of channel units to said cache unit.
3. A storage system according to Claim 2, wherein said first path and said second path are independent of each other.
4. A storage system according to Claim 2, wherein said first path is dedicated to the communication between said first channel unit and said cache unit.
5. A storage system according to Claim 4, wherein said second path is dedicated to communication between said second channel unit and said cache unit.
6. A storage system according to Claim 1, wherein among said plurality of paths, a path linking said cache unit and a predetermined channel

unit included in said plurality of channel units is not the same as a path linking said cache unit and an other channel unit included in said plurality of channel units.

7. A storage system according to Claim 2, wherein said first path directly links said first channel unit to said cache unit.

8. A storage system according to Claim 7, wherein said second path directly links said second channel unit to said cache unit.

9. A storage system according to Claim 2, wherein said first path links said first channel unit to said cache unit on a point-to-point basis.

10. A storage system according to Claim 9, wherein said second path links said second channel unit to said cache unit on a point-to-point basis.

11. A storage system according to Claim 1, wherein said disk device includes a plurality of disk drives, and said control unit is connected to said plurality of disk drives.

12. A storage system according to Claim 1, wherein said plurality of paths are signal lines linking said cache unit and said plurality of channel units.

13. A storage system according to Claim 1, wherein said plurality of paths are used to communicate a reading request, which is issued from said upper-level system, from said plurality of channel units to said cache unit, and used to communicate data, which is read from said cache unit, to said plurality of channel units.

14. A storage system according to Claim 1, wherein said plurality of paths are used to communicate a writing request, which is issued from said upper-level system, and used to communicate data written from said plurality of channel units to said cache unit.